## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 15 September 2005 (15.09.2005)

PCT

## (10) International Publication Number WO 2005/084306 A2

Not classified (51) International Patent Classification:

(21) International Application Number:

PCT/US2005/006588

(22) International Filing Date: 2 March 2005 (02.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

2 March 2004 (02.03.2004) US 60/549,832 60/643,110 12 January 2005 (12.01.2005) US 60/644,552 19 January 2005 (19.01.2005) US

- (71) Applicant (for all designated States except US): CHI-RON CORPORATION [US/US]; 4560 Horton Street, Emeryville, CA 94608-2916 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GRANDI, Guido [IT/IT]; c/o 4560 Horton Street, Emeryville, CA 94608 (US). GIULIO, Ratti [IT/IT]; C/o 4560 Horton Street, Emeryville, CA 94608 (US).
- (74) Agent: HALE, Rebecca, M.; Chiron Corporation, 4560 Horton Street, Emeryville, CA 94608-2916 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMMUNOGENIC COMPOSITIONS FOR CHLAMYDIA PNEUNOMIAE

(57) Abstract: The invention relates to polypeptides for use as an autotransporter antigen. The invention further relates to methods and uses of a polypeptide for an autotransporter function in preparation of a medicament for the prevention or treatment of a Chlamydia pneumoniae infection or for the preparation of an assay for the diagnosis of a Chlamydia pneumoniae infection in an individual. Also, a method is provided for raising an immune response in an individual by administering to the individual a polypeptide for use as an autotransporter antigen.

